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**SPECIFICATION FOR FLESHING KNIFE FOR
LEATHER INDUSTRY**

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SPECIFICATION FOR FLESHING KNIFE FOR LEATHER INDUSTRY

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Indian Standard

SPECIFICATION FOR FLESHING KNIFE FOR LEATHER INDUSTRY

0. FOREWORD

0.1 This Indian Standard was adopted by the Indian Standards Institution on 27 October 1971, after the draft finalized by the Leather Sectional Committee had been approved by the Chemical Division Council.

0.2 Fleshing knife is used in leather industry for fleshing operation in lime yard of tannery. It consists of two wooden handles and a steel blade.

0.3 This standard contains clause 6.1 which calls for agreement between the purchaser and the supplier.

0.4 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test, shall be rounded off in accordance with IS : 2-1960*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

1.1 This standard prescribes the requirements and the methods of sampling and test for fleshing knife used in the leather industry.

2. TERMINOLOGY

2.1 For the purpose of this standard, the definitions given in IS : 1640 - 1960† shall apply.

3. TYPES

3.1 The fleshing knife shall be of the following two types depending upon its use:

- a) Heavy duty, and
- b) Light duty.

* Rules for rounding off numerical values (*revised*).

† Glossary of terms relating to hides, skins and leather.

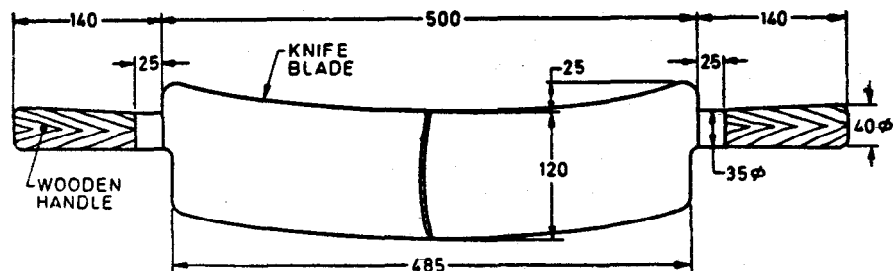
4. REQUIREMENTS

4.1 Materials

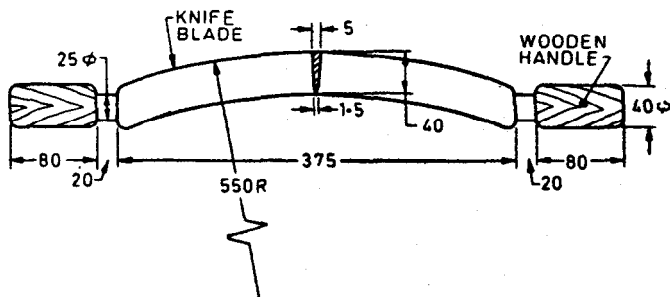
4.1.1 Blade— The blade shall be made from steel conforming to Designation T90 of IS : 3749 - 1966*.

4.1.2 Handles— The handles of the knife shall be made from wood and shall conform to the requirements of Class 5 of IS : 620-1965†.

4.2 Shapes and Dimensions— The shapes and dimensions of the two types of the fleshing knife shall be as shown in Fig. 1.



IA Heavy Duty Fleshing Knife



IB Light Duty Fleshing Knife

All dimensions in millimetres.

FIG. 1 FLESHING KNIFE

*Specification for tool and die steels for cold work.

†General requirements for wooden tool handles (second revision).

4.3 Hardness — The hardness of the finished steel blade measured as near to the cutting edge as possible shall be 625 to 725 *HV* when tested according to IS : 1501 - 1968*.

4.4 General Requirements and Finish

4.4.1 The blade shall be suitably hardened and tempered and shall be smoothly ground. It shall also have a rust-preventing coating. The cutting edges shall be even and shall be capable of being sharpened by means of an oil stone to a keen edge ready for use.

4.4.2 The handle shall be evenly turned and shall be smoothly finished with shellac varnish (*see* IS : 347 - 1952†).

5. MARKING

5.1 Each knife shall be marked legibly with the following particulars:

- a) Manufacturer's name or trade-mark, if any;
- b) Type; and
- c) Year of manufacture.

5.1.1 Each knife may also be marked with the ISI Certification Mark.

Note — The use of the ISI Certification Mark is governed by the provisions of the Indian Standards Institution (Certification Marks) Act and the Rules and Regulations made thereunder. The ISI Mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard under a well-defined system of inspection, testing and quality control which is devised and supervised by ISI and operated by the producer. ISI marked products are also continuously checked by ISI for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the ISI Certification Mark may be granted to manufacturers or processors, may be obtained from the Indian Standards Institution.

6. PACKING

6.1 The blade of the knife shall be greased, wrapped in greased paper and securely tied. The knife shall then be packed as agreed to between the purchaser and the supplier.

7. SAMPLING AND CRITERIA FOR CONFORMITY

7.1 The scale of sampling and the criteria for conformity of the material in a lot to this standard shall be as prescribed in Appendix A.

8. TEST METHODS

8.1 The handles and the material and hardness of the blade shall be tested according to the relevant Indian Standards indicated under 4. Dimensions shall be checked by general measuring instruments.

*Method for Vickers hardness test for steel (*first revision*).

†Specification for varnish, shellac, for general purposes.

APPENDIX A

(Clause 7.1)

SAMPLING OF FLESHING KNIVES FOR LEATHER INDUSTRY

A-1. SCALE OF SAMPLING

A-1.1 Lot — In a consignment all the fleshing knives of the same type shall be grouped together to constitute a lot.

A-1.2 Each lot shall be tested separately for determining its conformity to the requirements of this specification. The number of knives to be selected from a lot depends on the size of the lot and shall be in accordance with col 1 and 2 of Table 1.

TABLE 1 SCALE OF SAMPLING AND PERMISSIBLE NUMBER OF DEFECTIVES

(Clauses A-1.2 and A-2.1)

| NUMBER OF KNIVES IN THE LOT | NUMBER OF KNIVES TO BE SELECTED | PERMISSIBLE NUMBER OF DEFECTIVES |
|--------------------------------|------------------------------------|-------------------------------------|
| (1) | (2) | (3) |
| Up to 25 | 5 | 0 |
| 26 to 50 | 8 | 0 |
| 51 „ 100 | 13 | 1 |
| 101 „ 200 | 20 | 1 |
| 201 „ 400 | 32 | 2 |
| 401 „ above | 50 | 3 |

A-1.3 These sample knives shall be selected at random from the lot. For random selection procedures, IS : 4905 - 1968* may be referred.

A-2. CRITERIA FOR CONFORMITY

A-2.1 All the selected fleshing knives shall be examined for materials, shape, dimensions and general requirements and finish (see 4.1, 4.2 and 4.4). A knife failing in any one of these requirements shall be taken as a defective. The number of defectives shall not exceed the permissible number given in col 3 of Table 1 if the lot is to be accepted as satisfactory.

A-2.2 Two knives if the lot size is 100 or below, and four knives if the lot size is above 100, shall be tested for the hardness of steel blade. There shall be no failure if the lot is to be accepted as satisfactory.

*Methods for random sampling.

INTERNATIONAL SYSTEM OF UNITS (SI UNITS)

Base Units

| Quantity | Unit | Symbol |
|---------------------------|----------|--------|
| Length | metre | m |
| Mass | kilogram | kg |
| Time | second | s |
| Electric current | ampere | A |
| Thermodynamic temperature | kelvin | K |
| Luminous intensity | candela | cd |
| Amount of substance | mole | mol |

Supplementary Units

| Quantity | Unit | Symbol |
|-------------|-----------|--------|
| Plane angle | radian | rad |
| Solid angle | steradian | sr |

Derived Units

| Quantity | Unit | Symbol | Conversion |
|----------------------|---------|--------|---------------------------------|
| Force | newton | N | 1 N = 1 kg.1 m/s ² |
| Energy | joule | J | 1 J = 1 N.m |
| Power | watt | W | 1 W = 1 J/s |
| Flux | weber | Wb | 1 Wb = 1 V.s |
| Flux density | tesla | T | 1 T = 1 Wb/m ² |
| Frequency | hertz | Hz | 1 Hz = 1 c/s (s ⁻¹) |
| Electric conductance | siemens | S | 1 S = 1 A/V |
| Pressure, stress | pascal | Pa | 1 Pa = 1 N/m ² |

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